

LOGO!Power/1AC/12VDC/0.9A

LOGO!POWER 12 V / 0.9 A Stabilized power supply input: 100-240

V AC output: 12 V DC/ 0.9 A



Input	
Input	1-phase AC or DC
Rated voltage value V_{in} rated	100 ... 240 V
Voltage range AC	85 ... 264 V
input voltage	
• at DC	110 ... 300 V
Wide-range input	Yes
Overtolerance resistance	300 V AC for 1 s
Mains buffering	at $V_{in} = 187$ V
Mains buffering at I_{out} rated, min.	40 ms; at $V_{in} = 187$ V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 ... 63 Hz
input current	
• at rated input voltage 120 V	0.3 A
• at rated input voltage 230 V	0.2 A
Switch-on current limiting (+25 °C), max.	20 A
I^2t , max.	0.8 A ² ·s
Built-in incoming fuse	internal

Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C
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Output

Output	Controlled, isolated DC voltage
Rated voltage Vout DC	12 V
Total tolerance, static \pm	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.1 %
Residual ripple peak-peak, max.	200 mV
Residual ripple peak-peak, typ.	30 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	300 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	50 mV
product function output voltage adjustable	No
Status display	Green LED for output voltage OK
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	0.5 s
Voltage rise, typ.	100 ms
Rated current value Iout rated	0.9 A
Current range	0 ... 0.9 A
• Note	+55 ... +70 °C: Derating 2%/K
supplied active power typical	10.8 W
Parallel switching for enhanced performance	No

Efficiency

Efficiency at Vout rated, Iout rated, approx.	78 %
Power loss at Vout rated, Iout rated, approx.	3 W
power loss [W] during no-load operation maximum	0.3 W

Closed-loop control

Dynamic mains compensation (Vin rated \pm 15 %), max.	0.2 %
Dynamic load smoothing (Iout: 10/90/10 %), Uout \pm typ.	3 %
Load step setting time 10 to 90%, typ.	1 ms
Load step setting time 90 to 10%, typ.	1 ms

Protection and monitoring

Output overvoltage protection	Yes, according to EN 60950-1
Current limitation, typ.	1.3 A
property of the output short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• maximum	1.3 A
overcurrent overload capability in normal operation	overload capability 150% Iout rated typ. 200 ms
Overload/short-circuit indicator	-

overcurrent overload capability when switching on	150% I _{out} rated typ. 200 ms
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Safety

Primary/secondary isolation	Yes
galvanic isolation	Safety extra-low output voltage U _{out} acc. to EN 60950-1 and EN 50178
Protection class	Class II (without protective conductor)
Degree of protection (EN 60529)	IP20

Approvals

CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)
Explosion protection	ATEX (EX) II 3G Ex nA IIC T3; cULus Class I Div. 2 (ANSI/ISA-12.12.01, CSA C22.2 No. 213) Group ABCD, T4, File E488866
certificate of suitability NEC Class 2	Yes
FM approval	Class I, Div. 2, Group ABCD, T4
CB approval	Yes
Marine approval	ABS, DNV GL

EMC

Emitted interference	EN 55022 Class B
Supply harmonics limitation	not applicable
Noise immunity	EN 61000-6-2

environmental conditions

ambient temperature	
<ul style="list-style-type: none"> • during operation — Note • during transport • during storage 	-25 ... +70 °C with natural convection -40 ... +85 °C -40 ... +85 °C
Humidity class according to EN 60721	Climate class 3K3, 5 ... 95% no condensation

Mechanics

Connection technology	screw-type terminals
Connections	
<ul style="list-style-type: none"> • Supply input • Output • Auxiliary 	L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded +, -: 1 screw terminal each for 0.5 ... 2.5 mm ² -
width of the enclosure	18 mm
height of the enclosure	90 mm
depth of the enclosure	53 mm
required spacing	
<ul style="list-style-type: none"> • top • bottom 	20 mm 20 mm

<ul style="list-style-type: none"> • left • right 	0 mm
	0 mm
Weight, approx.	0.07 kg
product feature of the enclosure housing for side-by-side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions
MTBF at 40 °C	3 793 080 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)